CENTRAL FILES NUMBER 47-6-190

DateJune 11, 1947	Pile 63
Subject Study kequest #8 IN	To Read The
Chemical Composition of Active Waste	
700 Area.	Attacheo
By A. G. Erdman	Copy #
To M. C. Leverett	N
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To: M. C. Leverett

From: A. G. Erdman

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In Re:

Study Request #8 - Chemicaly Composition F B Date AUG 25 1971 of Active Waste - 700 Area.

Kellex has requested an estimate of what the active waste in the 1100 area may consist of. Hather than attempt to estimate the 1100 area waste, an attempt was made to determine the material now sent to the 700 area tank farm. Assuming a combination of wastes from the 1100 area, 706 E and the Research Center, the chemical content may be generally similar to that now collected in the 700 area.

The following points should be borne in mind in using the data:

- l. The data was compiled from estimates of the various groups as to the waste materials disposed of in a "sample" month.
- 2. The data may be used for corrosion and evaporation studies, but should be used cautiously.
- 3. The data should not be used in place of predicted quantities, acidities etc., described by M. C. Leverett in Study Request No. 8, for process studies.
- 4. No attempt was made to list small quantities of materials or infrequently used materials which might be sent to active waste.
- 5. The inter-reaction of various chemicals present (e.g. NaOH and HNO3) cannot be assumed since they may pass through the process at different times.

Let Davis 19 29 94

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A

A. G. Erdman

Process Design Section Technical Division

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CHEMICAL COMPOSITION OF ACTIVE WASTE - 700 AREA MONTHLY BASIS

atorial	706D ** Run	706 D *** Decontamination	Chemistry and Semi Torks.	Total
(22)			767 lbs.	767 lbs.
L(NO3)3_		200 25-	101 105.	270
H ₄)2SIF6	. 50 21 2	270 lbs.		450
40H	450 lbs.		1.05	135
4NO3			135	82
(NO3)2			82	21.
tric Acid			21 7	7
03			62	62
1			1	1
(ma.)			450	450
(NO ₃) ₂			2	2
(NO3)3	300 *	2900 *	287	3287
03	100 *	2700 -	6	6
alic Acid		2250	1	2350
2003		2350	150	4785
OH	4500	135	150 370	370
NO ₃		0.50	310	350
13PO4		350	90	85
,50, <u> </u>		5*	80	
(NO ₃),			190	190
(NO ₃) ₄ 02(NO ₃) ₂ 6 H	2 ⁰		80	80
ater	25,000 gal.	60,000 gal.	65,000 gal.	150,000 gal.

^{*} Acid wastes from the 706.D Area are neutrallized by the caustic or soda ash indicated prior to disposal. Since wastes from 706 E and the Research Center will be neutrallized in the 1100 Area tank farm, prior neutrallization should not be assumed.

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^{**} The materials listed in this column are disposed of during a one week period in the month.

^{***} Decontamination of the 706 D building is performed about 4 times a year. The monthly average output listed should be considered to occur over a one week period in the month. This week will not coincide with week noted in (**).